



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

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June 14, 2021

Randy Deans
Facilities and Environmental Supervisor
NC Machinery Company
1178 NW Maryland Avenue
Chehalis, WA 98532

Re: State Waste Discharge Permit Number ST6141 – Virtual Site Visit Report

Dear Randy Deans:

I would like to thank you for your time during my virtual site visit of NC Machinery Company in Chehalis on May 11, 2021. I am sending you a copy of my site visit report. If you have any questions regarding this site visit report, please contact me at azizullah.mahar@ecy.wa.gov or (360) 407-6290.

Sincerely,

Azizullah Mahar

Aziz Mahar, P.E.
Environmental Engineer
Southwest Regional Office
Water Quality Program

Enclosure



Waste Discharge Compliance Inspection Report

Section A

State Permit Number S | T | 6 | 1 | 4 | 1 | Municipal ☐ Industrial ☒ IUs ☐
Recon ☐ Inspection ☒ Inspection ☐ Unpermitted ☐ Land Application ☐
with Samples Facility

Permit Effective Date

October 1, 2016

Permit Expiration Date

September 30, 2021

Section B

Name and Location of Facility Inspected

NC Machinery Company
1178 NW Maryland Avenue
Chehalis, WA 98532

County

Lewis

Entry Time (Virtual)

9:00 a.m.

Virtual Inspection Date

5/11/2021

Exit Time (Virtual)

10:40 a.m.

Name(s) of On-Site Representative(s)

Randy Deans

Title(s)

Facilities & Environmental
Supervisor

Phone Number(s)

(425) 251-5876

Name, Address of Responsible Official

John W. Harnish
17035 West Valley Highway
Tukwila, WA 98188

Phone

(425) 251-9800

Contacted

☒ Yes ☐ No

Title

President & Chief Operating Officer

Section C

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated, N/A = Not Applicable)

S	Permit	N/A	Effluent/Receiving Waters	S	Compliance Schedule	S	Sludge Disposal.
S	Records/Reports	S	Flow Measurement	N/A	Laboratory	S	Pretreatment
S	Facility Site Review	S	Self-Monitoring Program	S	Operations/Maint		Other:

Section D Summary of Findings

Virtual Site Visit /Records Review

Introduction and Records Review

I conducted a virtual site visit of NC Machinery Company (NC Machinery) on May 11, 2021. During this virtual site visit, I met with Randy Deans, Facilities and Environmental Supervisor. In this meeting we discussed the state waste discharge permit, discharge to the City of Chehalis' sewer system/wastewater treatment plant. I reviewed discharge monitoring reports, laboratory reports, Operation & Maintenance Manual, Spill Control Plan, and Solid Waste Control Plan. This permit authorizes NC Machinery to discharge their treated vehicle/equipment maintenance wash water to the City of Chehalis' sewer system/wastewater treatment plant with the special permit conditions. These special permit conditions require NC Machinery to monitor and meet the permit limits for flow, oil and grease, pH, temperature, total suspended solids, and metals.

Before my virtual visit of NC Machinery on May 11, 2021, I conducted permit submittals review for the facility such as: Operational & Maintenance Manual, Spill Control Plan, Solid Waste Control Plan, Discharge Monitoring Report (DMR), and sampling analysis laboratory reports. My records review of these submittals showed that NC Machinery had not submitted these reports. During this site visit of the facility, I advised Randy Deans that NC Machinery must submit these reports to comply with permit requirements. On May 18, 2021, NC Machinery submitted these reports except sampling analysis laboratory reports. NC Machinery will be submitting sampling analysis laboratory reports with their next DMR submittal which is due on July 15, 2021.

Wastewater Treatment System

During this virtual site inspection, I visited the process water/wash water treatment system that NC Machinery currently has in place to treat the wastewater/wash water before it is discharged to the City of Chehalis' sewer system. The wash water containing solids and oil are collected in a tiered 2-segment collection concrete basin. The first basin is approximately 3,500 gallons and the second is approximately 900 gallons. The first basin collects the primary waste from the wash rack, and the supernatant flows to the smaller basin where via a float switch control the wastewater is lifted into the secondary treatment unit.

The secondary treatment unit operates at a flow between 5 to 8 gallons per minute. Initially, the wastewater is injected with an aluminum compound and then passed through an 800 mesh filter bag. The pH is then raised with sodium hydroxide. The reaction is then finalized with an anionic polymer. The completed waste is gravity settled into a 500 gallon poly tank which flows into a coalescent tank. This process water/wash water flows into a transfer basin where it is lift pumped through a pressure vessel containing an inverted flow filter bag at 15 to 20 microns. This treated process water/wash water is then discharged to the sanitary sewer.

The solids in the settling tank are transferred back to the large sediment basin. The outside primary sediment basin is checked for solids weekly and cleaned out when solids reach a depth of 18 to 24 inches. The secondary basin is checked weekly and is cleaned when solids reach a depth of 6 inches. The inside clarifier tank is checked daily and flushed on an as needed basis. The overall system is cleaned weekly. The solids removed from the primary and secondary basin outside are placed in a concrete drying vault for disposal.

Permit Verification

Permit monitoring requirements are being carried out as specified in the permit.

Latitude and Longitude Verified? ☒ PARIS ☐ GPS
46.67185 -122.97739

☒ Announced
☐ Unannounced

Name(s) and Signature(s) of Inspector(s)	Section/Phone Number SWRO/Water Quality	Date
Aziz Mahar, P.E. <i>Azizullah Mahar</i>	(360) 407-6290	6/14/2021
Signature of Reviewer	Section/Phone Number SWRO/Water Quality	Date
Steven G. Eberl, P.E. <i>SA Eberl</i>	(360) 407-6293	6/14/2021